INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB04/52100

	TO TOTAL OF OUR PROTECT MATERIA					
A. CLASSIFICATION OF SUBJECT MATTER						
IPC(7) : B02C 1/00 US CL : 241/21, 46.017, 46.06, 46.08, 46.11, 185.6; 415/121.1						
US CL : 241/21, 46.017, 40.06, 40.11, 105.6, 11 According to International Patent Classification (IPC) or to both national classification and IPC						
	S SEARCHED					
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Minimum documentation searched (classification system followed by classification symbols)						
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U.S. : 24	1/21, 46.017, 46.06, 46.08, 46.11, 185.6; 415/121.1					
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)						
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G DOCI	UMENTS CONSIDERED TO BE RELEVANT					
	Citation of document, with indication, where app	propriate, of	the relevant passages	Relevant to claim No.		
Category *	US 2004/0253094 A1(KEENER) 16 December 2004	, see figure 9	9	1-53		
E,A	US 2004/0233034 AT(125551535) TO DOCUMENT 300.	. •		1.50		
	US 3,650,481 A(CONERY et al) 21 March 1972, se	e figure 1		1-53		
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Furthe	er documents are listed in the continuation of Box C.		ee patent family annex.			
	Special categories of cited documents:		ater document published after the i			
1	=	F V	inderstand the principle or theory	inderlying the invention		
"A" docume	nt defining the general state of the art which is not considered to articular relevance			he claimed invention cannot be		
		"X"	considered novel or cannot be cons	idered to involve an inventive		
"E" earlier a	application or patent published on or after the international filing .	1	step when the document is taken at	one		
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"O" docume	ent referring to an oral disclosure, use, exhibition or other means		document member of the same pate			
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I M	fail Stop PCT, Attn: ISA/US commissioner for Patents	Mark Ro	genpaum,			
D.	O. Box 1450	Telephone	No. 571-272-4050			
	lexandria, Virginia 22313-1450	[*]				
1 Tanaimaila N	No. (703) 305-3230					

Facsimile No. (703) 305-3230
Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB04/52100

Box No. II sheet)	Observations where certain claims were found unsearchable (Continuation of item 2 of first
This interna	tional search report has not been established in respect of certain claims under Article 17(2)(a) for the following
reasons:	•
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
	ional Searching Authority found multiple inventions in this international application, as follows: ontinuation Sheet
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. 🖂	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
<i>2.</i>	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on P	rotest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)

	International application No.
INTERNATIONAL SEARCH REPORT	PCT/IB04/52100
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BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACK Group I, claim(s) 1-26,31-35, drawn to a grinder pump with impellers.	ING
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Group II, claim(s) 27-30,36-53, drawn to a grinder pump with specific discharge	configuration.
The inventions listed as Groups I and II do not relate to a single general inventive	e concept under PCT Rule 13.1 because, under PCT
Rule 13.2, they lack the same or corresponding special technical features for the	following reasons: the special technical feature of
Group I is the use of impellers with grinder blades while the specific technical feduscharge configuration.	ature of Group II is a grinder pump with a unique
Group I is the use of impeliers with grinder blades while the specific technical feature discharge configuration.	ature of Group II is a grinder pump with a unique
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